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MINISTRY OF INDUSTRY, COMMERCE AND CRAFTS  
D.G.P.I. - ITALIAN OFFICE OF PATENTS AND TRADEMARKS

INDUSTRIAL INVENTION PATENT

No. 01250630

This patent is granted for the invention which is the object of the application specified below

Application Number	Year	Office	Application Date	Class
001846	91	MILAN	07/04/1991	B-01F

**UNEDITED**

HOLDER

TECMEC S.R.L.  
ALBAIRATE (MILAN)

REPRESENTATIVE

CIOGNA FRANCO

ADDRESS

PROF. FRANCO CIOGNA  
VIA VISCONTI DI MODRONE 14/A

TITLE

MIXER SHAKER CLOSET STRUCTURE FOR PAINTS,  
WITH PROTECTION DEVICES

INVENTOR

DESINANO CARLO

**DRAFT**

Rome, APRIL 21, 1995

THE MANAGER  
(GIOVANNA MORELLI)

TO THE MINISTRY OF INDUSTRY, COMMERCE AND CRAFTS  
CENTRAL PATENTS OFFICE - ROME

MODULE A

- A. APPLICANT (I)  
1) Denomination TECMEC S.R.L.  
Domicile ALBAIRATE (MI)  
2) Denomination  
Domicile
- B. APPLICANT'S REPRESENTATIVE WITH RESPECT TO THE Pat. Off.  
Surname First Name CICO GNA FRANCO  
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- C. RECIPIENT'S CHOICE OF DOMICILE  
Street No. City zip
- D. TITLE Proposed Class (Sez/cl/scl)  
"MIXER SHAKER CLOSET STRUCTURE FOR PAINTS, WITH PROTECTION DEVICES"
- E. DESIGNATED INVENTOR Surname First Name Surname First Name
- F. PRIORITY  
Nation and organization Type of priority Application Number Filing Date Attachment S/R
- G. CENTER QUALIFIED FOR COLLECTION OF MICROORGANISM CULTURE, denomination
- H. SPECIAL ANNOTATIONS

ATTACHED DOCUMENTATION

- Doc. 1 [2] PROV No. Pages 11 Summary, with main design, description and claims (compulsory 2 sets) 2
- Doc. 2 [2] PROV No. Tables 06 Compulsory if cited in description, 2 sets
- Doc. 3 [1] RIS Cover letter for process, reference to general process
- Doc. 4 [0] RIS Inventor designation
- Doc. 5 [0] RIS Priority document with translation to Italian
- Doc. 6 [0] RIS Authorization or conveyance act
- Doc. 7 [0] RIS Complete nomination of the petitioner
- 8) Payment receipt, Total Lire 401,000 = FOR 3 YEARS compulsory
- 9) Stamp for patent in Lire 10,000 compulsory
- COMPILED 07/04/1991 SIGNATURE OF APPLICANT
- CONTINUATION (YES/NO) [NO]
- AUTHENTICATED COPY REQUESTED OF THIS CERTIFICATE [ YES]

PROVINCIAL OFFICE IND. COMM. & CRAFT MILAN Code 15  
MINUTES OF FILING APPLICATION NUMBER M191 A 001846  
The year of one thousand nine hundred and NINETY ONE day FOUR month of JULY  
The applicant(s) indicated above have presented to me this application, furnished with 00 attached sheets for the concession of the patent indicated above.

I. VARIOUS ANNOTATIONS OF THE REGISTRY OFFICIAL

FILER

REGISTRY OFFICIAL

[STAMP: Illegible]

G. RESCALI

SUBJECT OF THE INVENTION WITH MAIN DRAWINGS, DESCRIPTION AND CLAIMS

APPLICATION NUMBER H191a-001866 REG.A

FILING DATE 07/04/1991

PATENT NUMBER

RELEASE DATE

"MIXER SHAKER CLOSET STRUCTURE FOR PAINTS, WITH PROTECTION DEVICES"

1. Summary

This invention has as its object a mixer shaker closet structure for paints, with protection devices, which comprises a load bearing frame, which presents a plurality of shelves for support of a plurality of containers, provided with butterfly connections to the shaker device, which are detachable and may be housed in channels of the frame, where fins are foreseen, to set the butterfly connection in rotation. The specificity of the invention is constituted by the fact of including, for each channel, a detachable protection section, which may be superimposed in view of the insertion of the butterflies in the channels. There are, besides, motorized means foreseen, for the activation of the fins, which are linked to the means of activation of the protection sections.

DRAWING

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[Stamp]:  
Via Visconti di Modrone  
Milan 29112  
TECHNICAL LEGAL  
PATENTS  
OFFICE  
Prof. FRANCO CICOGLA

Description of the Industrial invention having as its title:

"MIXER SHAKER CLOSET STRUCTURE FOR PAINTS, WITH PROTECTION DEVICES"

of

TECMEC SRL

of Italian nationality, with head office at Albairate - (Milan) - and choosing domicile at the Patents Law  
Office of Prof. Franco Cicogna in Via Visconti di Modrone 14/A, Milan

Filed on JULY, 4, 1991 as No. MI 91 A/01946

DESCRIPTION

This invention has as its object a mixer shaker closet structure for paints, with protection devices.

As is known, mixer shaker closets for paints exist in the market, normally used in body shops or similar, that are structured with a load bearing framework, which presents a plurality of shelves, on which are deposited the various paint containers, usually provided with a cover, provided with an external fork, which is connected to a means for mixing and shaking the paint, placed inside the can itself.

Such a fork is inserted in the closet, so as to couple it with the fins, connected to motorized means, which, on command, can be set in rotation, so as to cause the fork to rotate and, consequently the mixer blade inside each container.

With these types of closet, the reciprocal coupling zone between the fins and the forks, turns out to be inadequately protected, thus permitting that, inadvertently, the user may place a finger or other body parts between the fin and fork, with possible serious risks.

Another drawback, imputable to solutions of the known technique, arises from the fact that generally, the removal and the introduction of the containers in the closet is not easy, with problems connected to the correct coupling between fins and forks.

The task the invention proposes is to eliminate the previously described drawbacks, by realizing a mixer shaker closet structure for paints, with means of protection, which is capable of adequately protecting the coupling zone between fins and forks of the containers, so that it is possible to introduce a hand,

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accidentally or intentionally, into the coupling zone, when the motors are in operation.

Specifically, such a shaker mixer closet structure for paints, with protection devices, allows facilitating the insertion and removal of the varied containers without disadvantages of any kind, in the coupling between fin and fork.

In addition, the aforesaid shaker mixer closet structure, from its particular characteristics which may be realized, is able to afford the fullest guarantee of reliability and safety in use.

Finally, the mixer shaker closet structure for paints, in point is easily obtainable using elements and materials commonly available off the shelf and, therefore, it is highly competitive, from the economic point of view.

The above stated task, as well as the mentioned purposes and others, which will be shown better below, are attained by a mixer shaker closet structure for paints, with protection devices, according to the invention, including a load bearing frame, which presents a plurality of shelves for the support of a plurality of containers.

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These latter are provided with a fork for connection to the shakers devices, housed in channels of the frame, where fins are foreseen, to set the fork itself in rotation.

The above mentioned mixer shaker closet structure for paints is characterized by the fact of including, for each channel, a protection profile, detachable and which may be superimposed from the point of view of insertion of the forks in the channels.

There are, besides, drive motors foreseen, for the activation of the fins, subjected to the activation mean of the protection profiles.

Additional characteristics and advantages of the invention will mostly be shown from an examination of the description of a preferred, but not exclusive, execution form of a mixer shaker closet structure for paints, with protection devices, illustrated for indicative purposes, but not restricted thereto, with the assistance of the attached drawings, in which:

Figure 1 represents schematically, in perspective view, the closet structure;

Figure 2 represents the closet, in frontal view, with protection section arranged in

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the open position, to allow the removal and the introduction of the containers;

Figure 3 represents, in frontal view, the closet with the protection section closed to prevent the access to the coupling zone between fin and fork,;

Figure 4 represents, in cross section, the protection profile, in the open position:

Figure 5 represents, in cross section, the protection section, in the closed position;

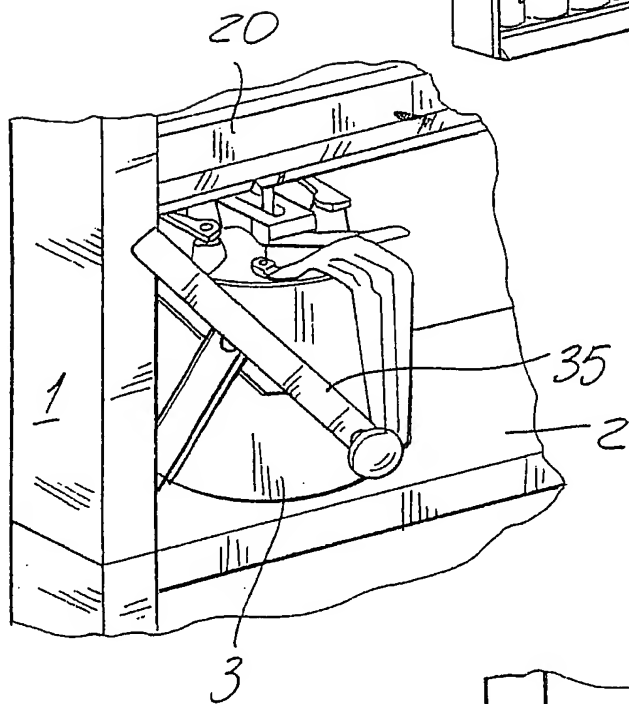
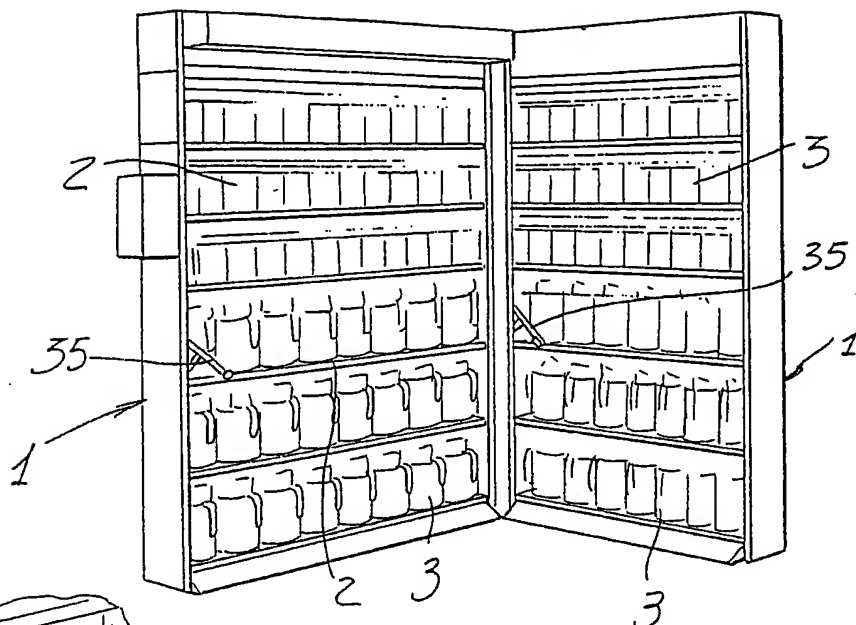
Figure 6 shows, in perspective view, the details of a channel, with the protection section in the open position;

Figure 7 shows, the means of activation of the protection sections;

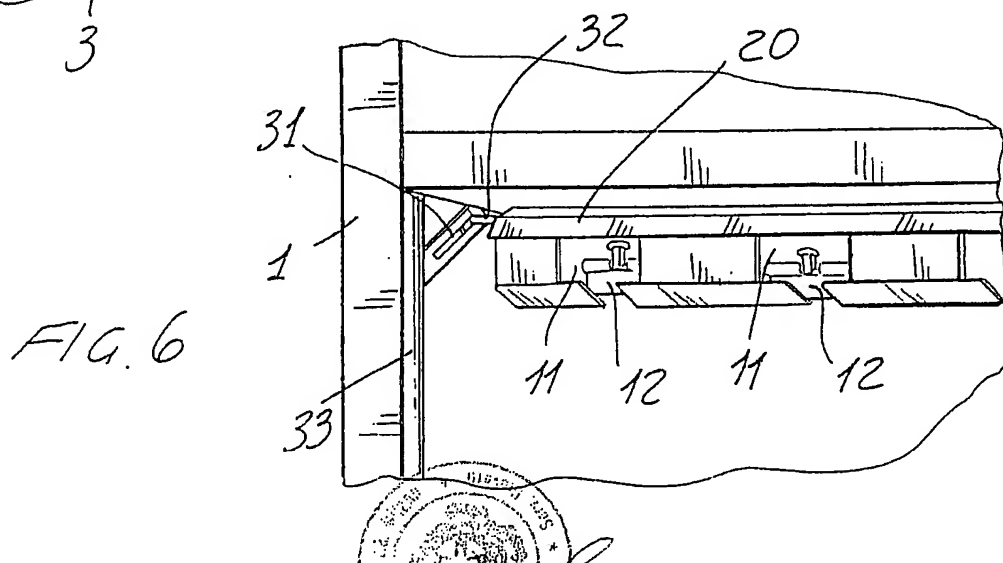
Figure 8 shows the means of activation and the microswitch.

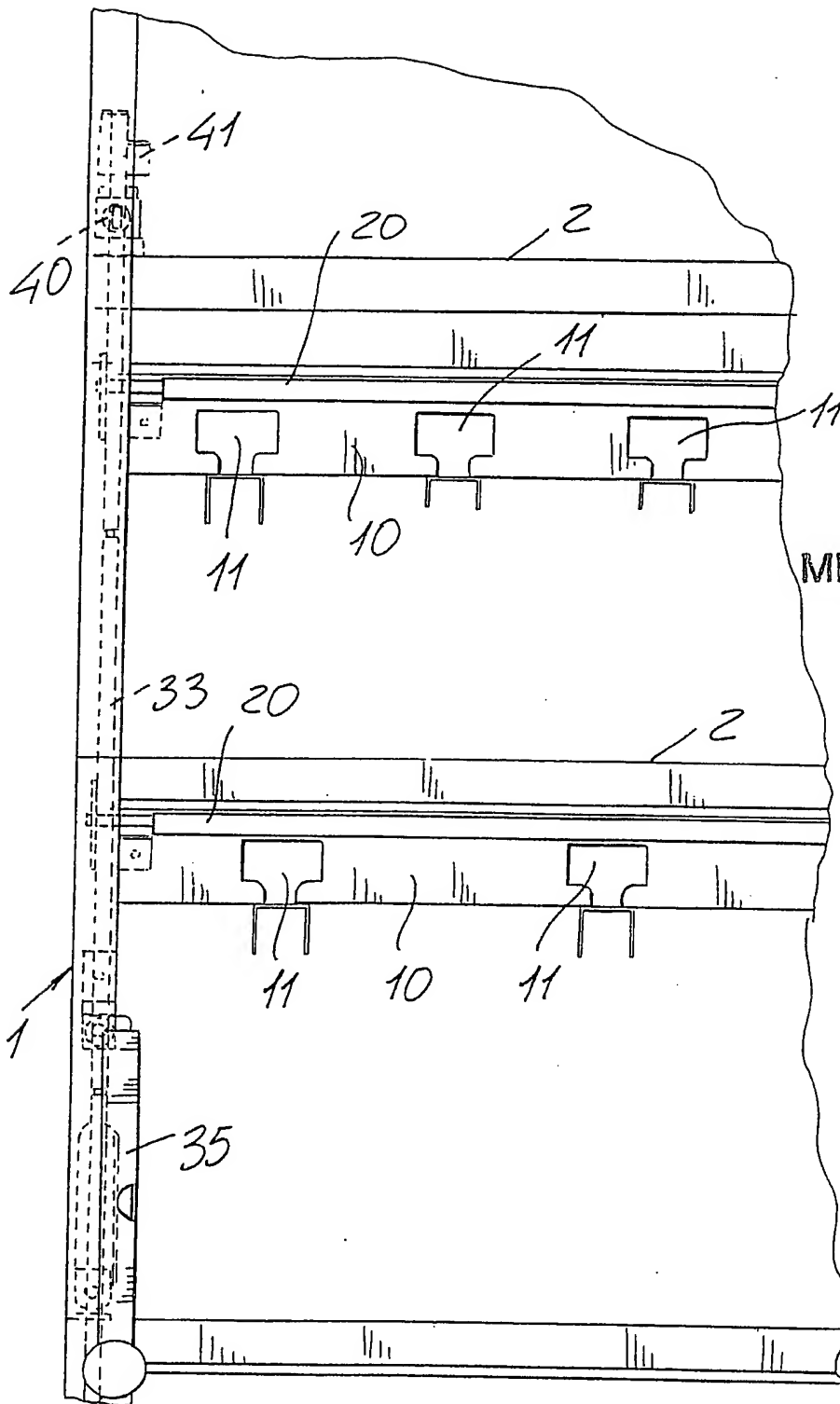
With particular reference to the numerical symbols of the aforesaid figures, the mixer shaker closet structure for paints, with protection devices, according to the invention, includes a load bearing frame, indicated globally with the reference number 1, which presents a plurality of shelves

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FIG. 2



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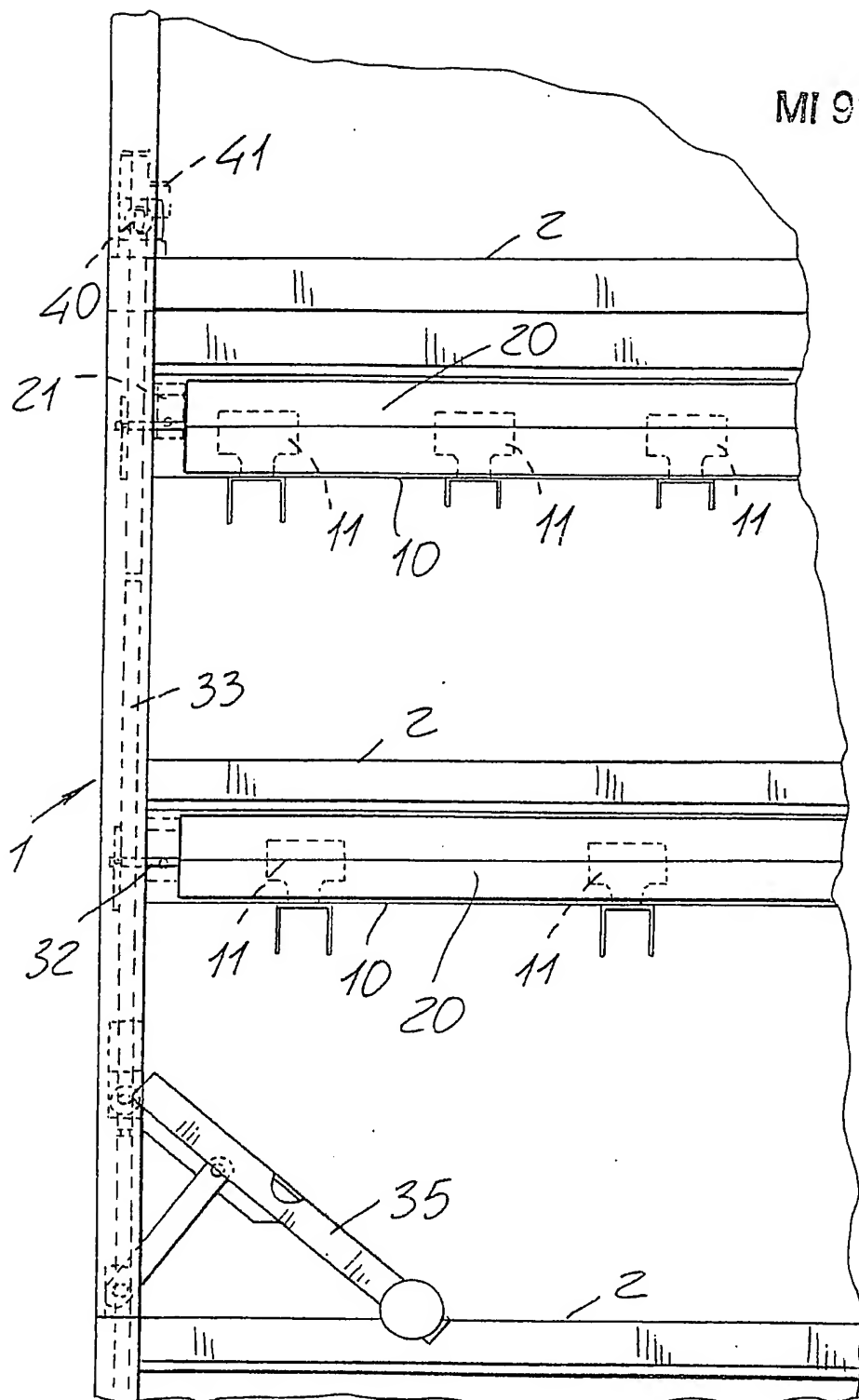
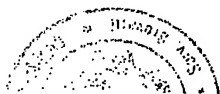
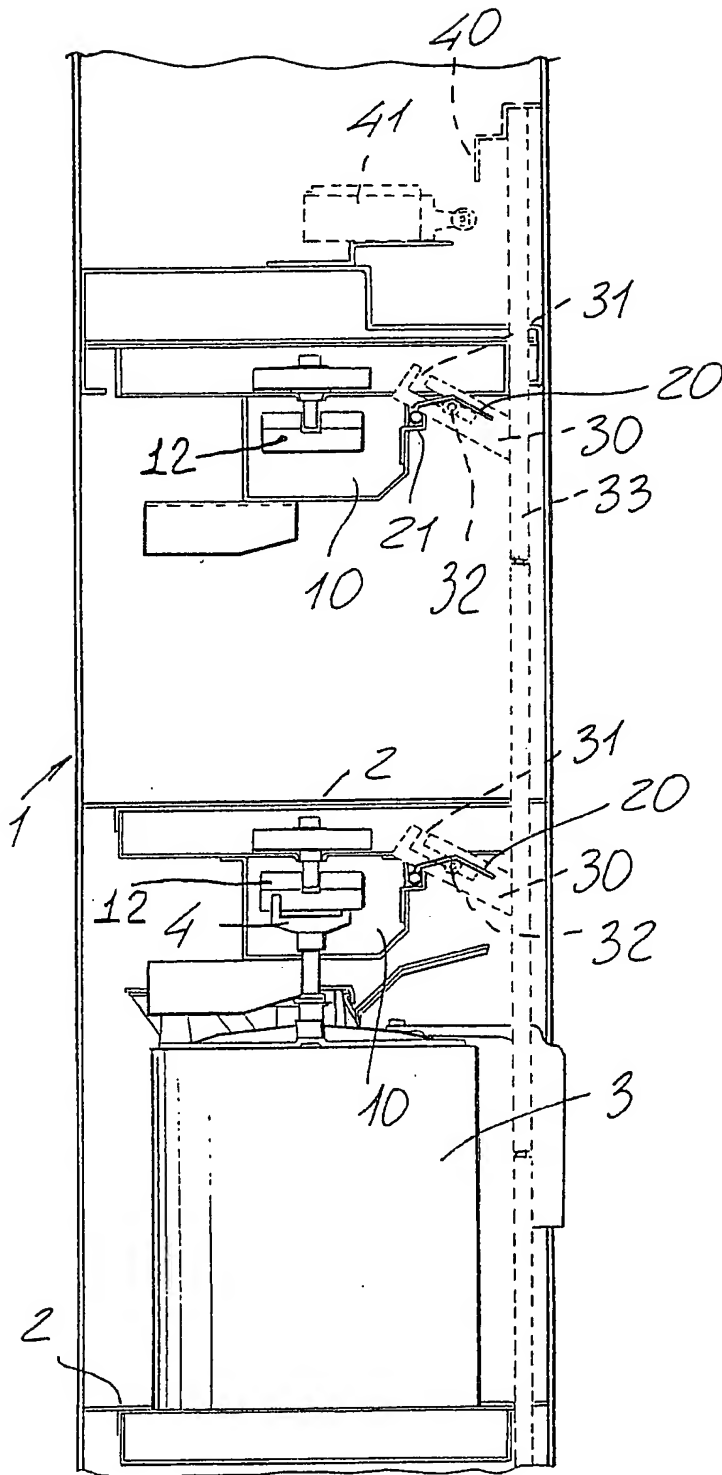


FIG. 3





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FIG. 4



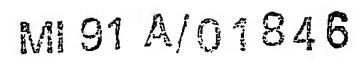
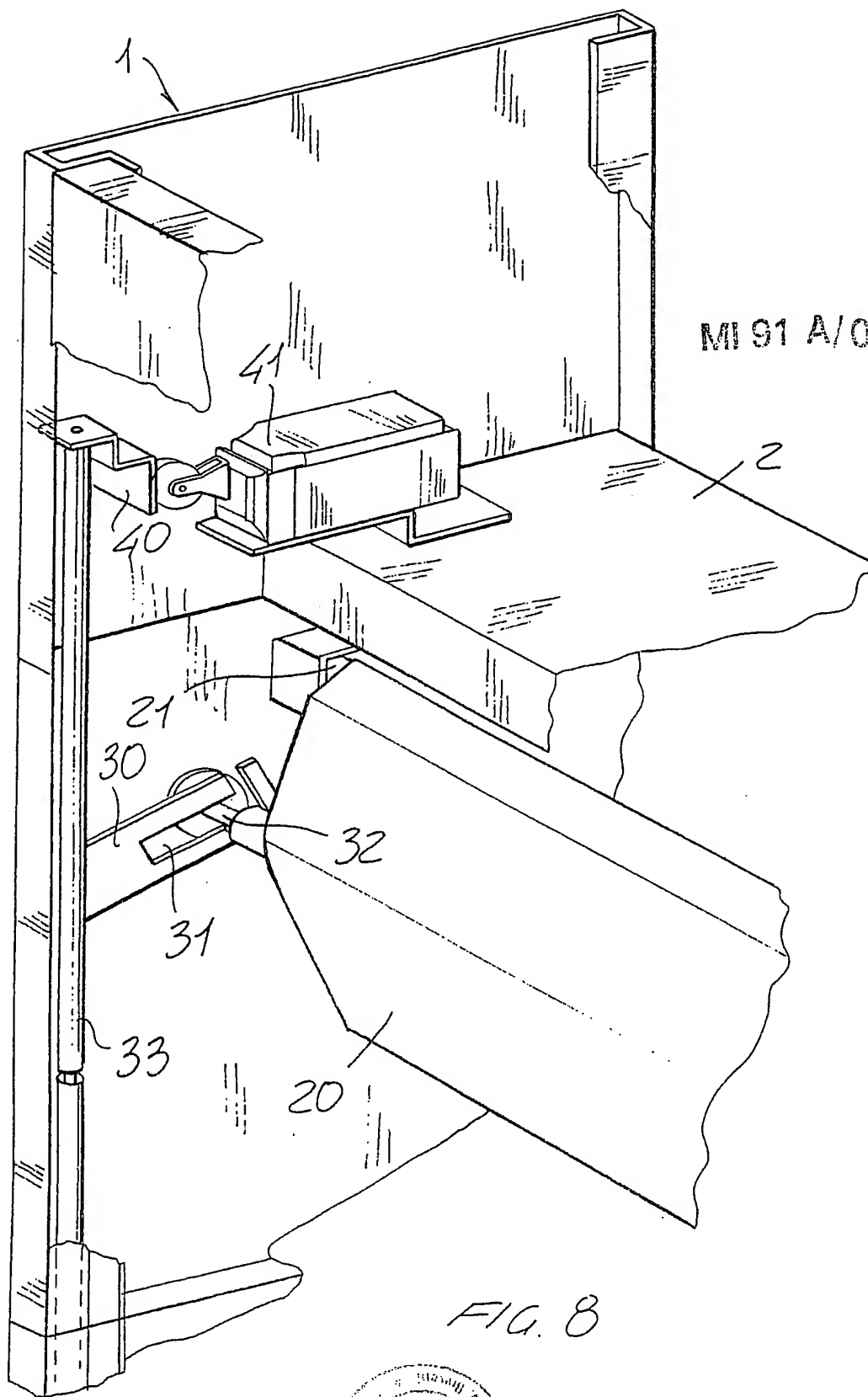


FIG. 5





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FIG. 8

